## IN THE CLAIMS:

Claims 1, 3, 5, 7, 12, 13, 15, 20, 26, 46, 47, 49, 52 and 55 have been amended herein. New claims 66 and 67 have been added. Please note that all claims currently pending and under consideration in the referenced application are shown below, in clean form, for clarity. Please enter these claims as amended. Also attached is a version with markings to show changes made to the claims.

Please cancel claims 2, 4, 6, 19, 27 through 43, and 56 through 65 without prejudice or disclaimer.

- 1. (Amended) A substrate assembly, comprising:
- a substrate;
- a layer of resilient conductive material disposed proximate a surface of said substrate, said layer of resilient conductive material defining a plurality of electrically isolated conductive traces and a plurality of electrically isolated spring-biased electrical contacts, each electrically isolated spring-biased electrical contact extending from one of said plurality of electrically isolated conductive traces and further including a surface configured for biasing against and electrically contacting a lead element of an integrated circuit device; and
- a plurality of vias disposed in said substrate, each via of said plurality of vias opening onto at least said surface of said substrate and comprising a recess into which one of said plurality of electrically isolated spring-biased electrical contacts may be deflected.

- 3. (Amended) A substrate assembly, comprising:
- a substrate:
- a laminate sheet of resilient conductive material bonded said substrate proximate a surface thereof, said laminate sheet of resilient conductive material defining a plurality of electrically isolated conductive traces and a plurality of electrically isolated spring-biased electrical contacts, each electrically isolated spring-biased electrical contact extending from one of said plurality of electrically isolated conductive traces and further including a surface configured for biasing against and electrically contacting a lead element of an integrated circuit device; and
- a plurality of vias disposed in said substrate, each via of said plurality of vias opening onto at least said surface of said substrate and comprising a recess into which one of said plurality of electrically isolated spring-biased electrical contacts may be deflected.
  - 5. (Amended) A substrate assembly, comprising:
- a substrate having a first surface and an opposing second surface;
- a layer of resilient conductive material proximate at least a portion of at least one of said first and second surfaces of said substrate:
- at least one spring-biased electrical contact formed in said layer of resilient conductive material and electrically isolated from said layer of resilient conductive material by an aperture formed in said layer of resilient conductive material, said at least one spring-biased electrical contact including a surface configured for biasing against and electrically contacting a lead element extending from an integrated circuit device; and
- at least one conductive trace formed in said layer of resilient conductive material and electrically isolated from said layer of resilient conductive material by at least one cavity, said at least one conductive trace terminating at said at least one spring-biased electrical contact; and
- at least one via extending through said substrate and disposed at a location aligned with said at least one spring-biased electrical contact such that said at least one spring-biased electrical contact may be deflected into said at least one via.

- 7. (Amended) The substrate assembly of claim 5, wherein said at least one via opens only onto said at least one of said first and second surfaces of said substrate.
- 8. The substrate assembly of claim 5, wherein said at least one spring-biased electrical contact comprises a cantilevered spring, a transversely deflecting hoop-shaped spring, a spiral-shaped spring, or a rosette spring.
- 9. The substrate assembly of claim 5, wherein said at least one spring-biased electrical contact is configured to at least partially align said lead element extending from said integrated circuit device relative to said at least one spring-biased electrical contact.
- 10. The substrate assembly of claim 5, wherein said at least one spring-biased electrical contact further includes a permanent deflection.
- 11. The substrate assembly of claim 5, wherein said layer of resilient conductive material comprises a laminate bonded to said at least one of said first and second surfaces of said substrate.
- 12. (Amended) The substrate assembly of claim 5, wherein said layer of resilient conductive material comprises a layer of sputtered or CVD material.
- 13. (Amended) The substrate assembly of claim 5, wherein said at least one spring-biased electrical contact further includes at least one contact element disposed on said surface of said at least one spring-biased electrical contact and configured to remove or puncture through a layer of contaminants formed on an exterior surface of a lead element extending from an integrated circuit device.

- 14. The substrate assembly of claim 13, wherein said at least one contact element comprises a plurality of alternating grooves and ridges, a plurality of protrusions, or a roughened surface.
- 15. (Amended) An electrical component, comprising: a substrate having a first surface and an opposing second surface;
- a layer of resilient conductive material disposed proximate at least a portion of said first surface of said substrate:
- a plurality of spring-biased electrical contacts formed in said layer of resilient conductive material, each spring-biased electrical contact of said plurality of spring-biased electrical contacts electrically isolated from said layer of resilient conductive material by an aperture formed in said layer of resilient conductive material;
- a plurality of conductive traces formed in said layer of resilient conductive material, at least a portion of said plurality of conductive traces each terminating at one spring-biased electrical contact of said plurality of spring-biased electrical contacts, each conductive trace of said plurality of conductive traces electrically isolated from said layer of resilient conductive material and all other conductive traces of said plurality of conductive traces by at least one cavity;
- a plurality of vias disposed in said substrate, each via of said plurality of vias positioned at a location underlying one spring-biased electrical contact of said plurality of spring-biased electrical contacts; and
- at least one integrated circuit device disposed on said first surface of said substrate, said plurality of spring-biased electrical contacts on said first surface of said substrate arranged in at least one array corresponding to a footprint of a plurality of lead elements extending from said at least one integrated circuit device, each lead element of said plurality of lead elements of said at least one integrated circuit device electrically contacting one spring-biased electrical contact of said plurality of spring-biased electrical contacts and downwardly deflecting said one spring-biased electrical contact into one via of said plurality of vias.

- 16. The electrical component of claim 15, further comprising a clamping element securing said at least one integrated circuit device to said first surface of said substrate and biasing said plurality of lead elements extending therefrom against said at least one array of spring-biased electrical contacts.
- 17. The electrical component of claim 15, wherein at least one spring-biased electrical contact of said plurality of spring-biased electrical contacts includes a permanent deflection.
- 18. The electrical component of claim 17, wherein said at least one spring-biased electrical contact is permanently deflected away from said first surface of said substrate.
- 20. (Amended) The electrical component of claim 15, wherein at least one spring-biased electrical contact of said plurality of spring-biased electrical contacts is permanently deflected towards said first surface of said substrate and said via underlying said at least one spring-biased electrical contact.
- 21. The electrical component of claim 20, wherein a surface of said at least one spring-biased electrical contact and a wall of said underlying via substantially traps a lead element of said plurality of lead elements of said at least one integrated circuit device therebetween.
- 22. The electrical component of claim 15, wherein said each spring-biased electrical contact comprises a cantilevered spring, a transversely deflecting hoop-shaped spring, a spiral-shaped spring, or a rosette spring.
- 23. The electrical component of claim 15, wherein said each spring-biased electrical contact is configured to at least partially align a mating lead element of said plurality of lead elements of said at least one integrated circuit device relative thereto.

- 24. The electrical component of claim 15, wherein said each spring-biased electrical contact includes at least one contact element configured to remove or puncture through a layer of contaminants formed on a surface of a mating lead element of said plurality of lead elements of said at least one integrated circuit device.
- 25. The electrical component of claim 24, wherein said at least one contact element comprises a plurality of alternating grooves and ridges, at least one protrusion, or a roughened surface.
- 26. (Amended) The electrical component of claim 15, further comprising: a second layer of resilient conductive material disposed over at least a portion of said second surface of said substrate;
- a second plurality of spring-biased electrical contacts formed in said second layer of resilient conductive material, each spring-biased electrical contact of said second plurality of spring-biased electrical contacts electrically isolated from said second layer of resilient conductive material by an aperture formed in said second layer of resilient conductive material:
- a second plurality of conductive traces formed in said second layer of resilient conductive material, at least a portion of said second plurality of conductive traces each terminating at one spring-biased electrical contact of said second plurality of spring-biased electrical contacts, each conductive trace of said second plurality of conductive traces electrically isolated from said second layer of resilient conductive material and all other conductive traces of said second plurality of conductive traces by at least one cavity; and
- at least another integrated circuit device disposed on said second surface of said substrate, said second plurality of spring-biased electrical contacts on said second surface of said substrate arranged in at least one array corresponding to a footprint of a plurality of lead

elements extending from said at least one other integrated circuit device, each lead element of said plurality of lead elements of said at least one other integrated circuit device biased against and electrically contacting one spring-biased electrical contact of said second plurality of spring-biased electrical contacts.

- 44. The substrate assembly of claim 1, further including a dielectric layer overlying said layer of resilient conductive material and having apertures therethrough substantially aligned with said electrically isolated spring-biased electrical contacts.
- 45. The substrate assembly of claim 44, wherein the dielectric layer is of sufficient thickness to encompass at least a portion of each lead element of an integrated circuit device contacting an electrically isolated spring-biased electrical contact.
- 46. (Amended) The substrate assembly of claim 45, wherein said apertures are of a frustoconical configuration decreasing in size towards said layer of resilient conductive material.
- 47. (Amended) The substrate assembly of claim 3, further including a dielectric layer overlying said sheet of resilient conductive material and having apertures therethrough substantially aligned with said electrically isolated spring-biased electrical contacts.
- 48. The substrate assembly of claim 47, wherein the dielectric layer is of sufficient thickness to encompass at least a portion of each lead element of an integrated circuit device contacting an electrically isolated spring-biased electrical contact.
- 49. (Amended) The substrate assembly of claim 48, wherein said apertures are of a frustoconical configuration decreasing in size towards said sheet of resilient conductive material.

- 50. The substrate assembly of claim 5, further including a dielectric layer overlying said layer of resilient conductive material and having at least one aperture therethrough substantially aligned with said at least one electrically isolated spring-biased electrical contact.
- 51. The substrate assembly of claim 50, wherein the dielectric layer is of sufficient thickness to encompass at least a portion of at least one lead element of an integrated circuit device contacting said at least one electrically isolated spring-biased electrical contact.
- 52. (Amended) The substrate assembly of claim 51, wherein said at least one aperture is of a frustoconical configuration decreasing in size towards said layer of resilient conductive material.
- 53. The electrical component of claim15, further including a dielectric layer overlying said layer of resilient conductive material and having apertures therethrough substantially aligned with said electrically isolated spring-biased electrical contacts.
- 54. The substrate assembly of claim 53, wherein the dielectric layer is of sufficient thickness to encompass at least a portion of each lead element of said at least one integrated circuit device contacting an electrically isolated spring-biased electrical contact.
- 55. (Amended) The substrate assembly of claim 54, wherein said apertures are of a frustoconical configuration decreasing in size towards said layer of resilient conductive material.

Please add the following new claims:

- 66. A substrate assembly, comprising:
- a substrate having a first surface and an opposing second surface;
- a layer of resilient conductive material proximate at least a portion of at least one of said first and second surfaces of said substrate;
- at least one spring-biased electrical contact formed in said layer of resilient conductive material and electrically isolated from said layer of resilient conductive material by an aperture formed in said layer of resilient conductive material, said at least one spring-biased electrical contact including a surface configured for biasing against and electrically contacting a lead element extending from an integrated circuit device;
- at least one conductive trace formed in said layer of resilient conductive material and electrically isolated from said layer of resilient conductive material by at least one cavity, said at least one conductive trace terminating at said at least one spring-biased electrical contact; and wherein said at least one spring-biased electrical contact further includes at least one contact element disposed on said surface of said at least one spring-biased electrical contact and configured to remove or puncture through a layer of contaminants formed on an exterior surface of the lead element extending from an integrated circuit device, said at least one contact element comprising a plurality of alternating grooves and ridges, a plurality of protrusions, or a roughened surface.

- 67. An electrical component, comprising:
- a substrate having a first surface and an opposing second surface;
- a layer of resilient conductive material disposed proximate at least a portion of said first surface of said substrate;
- a plurality of spring-biased electrical contacts formed in said layer of resilient conductive material, each spring-biased electrical contact of said plurality of spring-biased electrical contacts electrically isolated from said layer of resilient conductive material by an aperture formed in said layer of resilient conductive material;
- a plurality of conductive traces formed in said layer of resilient conductive material, at least a portion of said plurality of conductive traces each terminating at one spring-biased electrical contact of said plurality of spring-biased electrical contacts, each conductive trace of said plurality of conductive traces electrically isolated from said layer of resilient conductive material and all other conductive traces of said plurality of conductive traces by at least one cavity;
- at least one integrated circuit device disposed on said first surface of said substrate, said plurality of spring-biased electrical contacts on said first surface of said substrate arranged in at least one array corresponding to a footprint of a plurality of lead elements extending from said at least one integrated circuit device, each lead element of said plurality of lead elements of said at least one integrated circuit device biased against and electrically contacting one spring-biased electrical contact of said plurality of spring-biased electrical contacts; and
- wherein said each spring-biased electrical contact includes at least one contact element configured to remove or puncture through a layer of contaminants formed on a surface of a mating lead element of said plurality of lead elements of said at least one integrated circuit device, said at least one contact element comprising a plurality of alternating grooves and ridges, at least one protrusion, or a roughened surface.